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(71) Applicant: **HONEYWELL INTERNATIONAL, INC.**
[US/US]; P.O. Box 2245, 101 Columbia Road, Morristown,
NJ 07962 (US).

(71) Applicants and

(72) Inventors: **KENNEDY, Joseph** [US/US]; Honeywell In-
ternational Inc., P.O. Box 2245, 101 Columbia Road, Mor-
ristown, NJ 07962 (US). **STUCK, Jason** [US/US]; Honey-
well International Inc., P.O. Box 2245, 101 Columbia Road,
Morristown, NJ 07962 (US).

(74) Agent: **THOMPSON, Sandra, P.**; Bolan, Michael, Bing-
ham McCutchen, Three Embarcadero Center, San Fran-
cisco, CA 94111-4067 (US).

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(54) Title: COATING COMPOSITION OPTIMIZATION FOR VIA FILL AND PHOTOLITHOGRAPHY APPLICATIONS AND METHODS OF PREPARATION THEREOF

(57) Abstract: A sacrificial coating material includes: at least one inorganic compound, and at least one material modification agent, wherein the sacrificial coating material is dissolvable in an alkaline-based chemistry or a fluorine-based chemistry. A method of producing a sacrificial coating material includes: providing at least one inorganic compound, providing at least one material modification agent, combining the at least one inorganic compound with the at least one material modification agent to form the sacrificial coating material, wherein the sacrificial coating material is dissolvable in an alkaline-based chemistry or a fluorine-based chemistry, but not organic casting solvents commonly used in organic BARC materials.

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